

**COMPLETE SAMPLE DELIVERY GROUP FILE (CSF)
EVIDENCE AUDIT CHECKLIST
U.S. Environmental Protection Agency - Region 8
Environmental Services Division, Multi-Media Branch
Analytical Operations Section**

Audit Number: 08-25-08 Site Name: Richardson Flats Tailings
Date CSF Received: 12/21/07 Site Manager: Kathryn Henarley
Received By: Campbell RAS Number: 36948
Date of Audit: 02/12/08 ULSA Number: _____
Audited By: Campbell SDG Number: MH23J2
Resubmitted CSF? Yes _____ No _____ Number of Samples: 5/2/5
Lab Name: A-4 Scientific CLP Lab Code: A-4
Lab Location: The Woodlands, TX

AUDIT CHECKLIST

CHAIN OF CUSTODY

- | | |
|---|--|
| 1. Custody Seal Present? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 2. Condition of Seal? Intact <input checked="" type="checkbox"/> Signed <input checked="" type="checkbox"/> Broken _____ Unsigned _____ | |
| 3. Chain of Custody Record(s) Present? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 4. Chain of Custody Record(s) Signed? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 5. Chain of Custody Record(s) Dated? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 6. Traffic Report(s) or Packing List(s) Present? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 7. Traffic Report(s) or Packing List(s) Signed? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 8. Airbill Present? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 9. Airbill Number(s) <u>863198575033</u> | |
| 10. Airbill Signed? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 11. Airbill Dated? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 12. Sample Tags Present? | Copies - Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 13. Should Sample Tags be Present? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |

FORM DC-2

14. Form DC-2 Present?
 15. Numbering Scheme on Form DC-2 Correct?
 16. Enclosed Documents Listed?
 17. Listed Documents Enclosed?

Yes ☒ No ☐
 Yes ☒ No ☐
 Yes ☒ No ☐
 Yes ☒ No ☐

FORM DC-1

8. Form DC-1 Present?
 9. Form DC-1 Complete?
 10. Form DC-1 Correct?

Yes ☒ No ☐
 Yes ☒ No ☐
 Yes ☒ No ☐

DOCUMENT CONTROL

1. Laboratory Documents Complete?
 2. Laboratory Documents Legible?
 3. Original Documents Included in CSF?

Yes ☒ No ☐
 Yes ☒ No ☐
 Yes ☒ No ☐

DATA INSPECTION

1. Form I's present (for each analytical fraction as defined by the Traffic Report/Chain of Custody Record)?
 2. Forms 2 through 8 (VOC & SVOC), Forms 2 through 10 (Pesticides), Forms 2 through 14 (Metals & Cyanide) present?
 3. Raw data present (for each analytical fraction as defined by the Traffic Report/Chain of Custody Record)?
 4. Percent Solids Form present for soil samples?

Yes ☒ No ☐
 Yes ☒ No ☐
 Yes ☒ No ☐
 Yes ☒ No ☐
 N/A Yes ☐ No ☐

Note: If items 1, 3, 4, 6, 7, 8, 12, 14, 18, or 22 are missing, corrective action measures must be taken by the CSF auditor and summarized below.

DIT NUMBER: 08-25-08

COMMENTS AND NOTES:

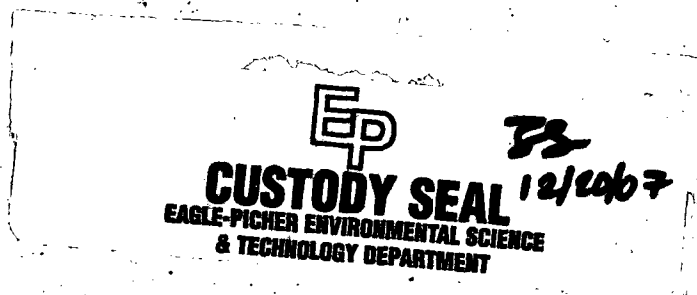
Paul Blamp 02/12/08

Editor

Date

EPA OFFICIAL SEALS PAGE

Please attach all custody seals below:



AUDIT NUMBER: 08-25-08

EPA CLP ELECTRONIC DISKETTE(S)

CASE #: 36948 SDG #: MH23J2

SITE NAME: Richardson Flat Tailings

RPM: Kathryn Hernandez

DATE: 2/12/08

AUDITOR: Cain Bump

Audit # 08-25-08
RAS # 36948
SDG - MH23J2
Site - Richardson Flat Tailings
RPM - Kathryn Hernandez
Date - 2/12/08
Lab - A-4

USEPA-CLP

COVER PAGE

Lab Name: A4 Scientific, Inc. Contract: EPW06057
Lab Code: A4 Case No: 36948 NRAS No.: _____ SDG No: MH23J2
SOW No.: IIM05.4

EPA Sample No.

Lab Sample ID

MH23J20008750-02MH23L00008750-04MH23L80008750-03MH23M60008750-01MH23M6D0008750-01DMH23M6S0008750-01SMH24B10008750-05

Were ICP-AES and ICP-MS interelement corrections applied?

(Yes/No)

ICP-AES

ICP-MS

YES

YES

Were ICP-AES and ICP-MS background corrections applied?

(Yes/No)

YES

YES

If yes, were raw data generated before application of background corrections?

(Yes/No)

NO

NO

Comments: TCLP METALS

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Reddy Pakanati

Name: REDDY PAKANATI

Date: 12/20/07

Title: LABORATORY MANAGER

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A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: EPW06057**Case #: 36948****SDG #: MH23J2****SDG NARRATIVE****SAMPLE RECIEPT & LOGIN**

The following samples were received on the dates listed against them. The samples were logged in for analysis as listed.

EPA SAMPLE #	LAB SAMPLE #	DATE/TIME RECEIVED	AIRBILL NO.	ANALYSIS	Total # of Containers Received	REMARKS	MATRIX
MH23J2	0008750-02	12/11/07 08:00	86398575033	ICP-AES, HG	1	MOD 1509.0 (TCLP, As, Cd, Pb)	SOIL
MH23L0	0008750-04	12/11/07 08:00	86398575033	ICP-AES, HG	1	MOD 1509.0 (TCLP, As, Cd, Pb)	SOIL
MH23L8	0008750-03	12/11/07 08:00	86398575033	ICP-AES, HG	1	MOD 1509.0 (TCLP, As, Cd, Pb)	SOIL
MH23M6	0008750-01	12/11/07 08:00	86398575033	ICP-AES, HG	1	MOD 1509.0 (TCLP, As, Cd, Pb)MS/DUP	SOIL
MH24B1	0008750-05	12/11/07 08:00	86398575033	ICP-AES, HG	1	MOD 1509.0 (TCLP, As, Cd, Pb)	SOIL

ICP-AES
HG-Mercury

This SDG contains samples that were previously received by the lab under different SDGs. These samples were requested for analysis for TCLP AS, CD, Pb, and HG according to Modification 1509.0

Issue: Per Scheduling lab QC is required; however no sample was designated for QC in SDG MH23J2. The lab would like to select sample MH23M6.

Resolution: Per Region 8, the laboratory selected a sample for laboratory QC that was not a PE, blank, or rinsate sample, notified the SMO coordinator of the sample selected for lab QC, and proceed with the analysis of the samples.

Issue: The laboratory would like confirmation on the samples scheduled for re-analysis are: MH24B1, MH23M6, MH23J2, MH23L8, MH23L0.

Resolution: Per communication with Region 8 on 12/6/2007, MH24B1, MH23M6, MH23J2, MH23L8, MH23L0 are the correct 5 samples being requested for re-analysis.

Issue: Per Scheduling five samples are to be reanalyzed for ICP-AES (As, Cd, and Pb) and five samples to be analyzed for (ICP-AES) Hg. The lab would like clarification if they need to assign one SDG or two separate SDG's for the reanalysis.

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A4 SCIENTIFIC, INC.

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Contract #: EPW06057

Case #: 36948

SDG #: MH23J2

SDG NARRATIVE

Resolution: Per Region 8, the laboratory was directed it may place all samples in one SDG since all 5 samples have the same analysis requested. The lab proceeded with the analysis.

Issue: The laboratory would like to confirm that these samples are being analyzed by TCLP for As, Cd, Pb, and Hg under MA 1509.0.

Resolution: Per MA 1509.0 Sol 401, the analysis should be TCLP for As, Cd, Pb, and Hg.

Issue: The lab would like to confirm the receipt date for the re-analysis.

Resolution: Per Region 8, the laboratory has proceeded with a receipt date for the reanalysis of 12/11/07.

SMO was notified. Directive is enclosed. No other discrepancies of issues were noted during receipt and login.

MERCURY

The samples were all solid matrix with no free liquids for filtration. Based on the fluid determination test, TCLP extraction was performed using Extraction Fluid #1.

The TCLP extracts were digested by Hot-Block technique (CW1) and analyzed using a Perkin Elmer FIMS-100.

MS and DUP were performed on sample "MH23M6" and they were within the QC limits.

No problems were encountered during sample preparation or analysis.

ICP-AES

The samples were all solid matrix with no free liquids for filtration. Based on the fluid determination test, TCLP extraction was performed using Extraction Fluid #1.

The TCLP extracts were digested by Hot-Block technique (HW1) and analyzed using a Thermo Electron ICAP6500. Samples were analyzed only for As, CD, and Pb according to Modification.

MS and DUP were performed on sample "MH23M6" and they were within the QC limits.

The following equations are used for calculation of sample results from raw instrument output data:

MERCURY

WATER Samples:

A standard curve is prepared by plotting the instrumental response of processed standards against true concentration values. Using a linear regression equation, the concentration of field and Quality Control (QC) samples is determined.

ICP-AES

WATER Samples:

$$\text{Concentration } (\mu\text{g/L}) = C * \frac{V_f}{V_i} * DF$$

Where,

C = Instrument value in $\mu\text{g/L}$

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A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: EPW06057	Case #: 36948	SDG #: MH23J2
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SDG NARRATIVE

V_f = Final digestion volume (mL) (50ml)

V_i = Initial digestion volume (mL) (50ml)

DF = Dilution Factor

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Request for Quote (RFQ) for Modified Analysis

Date: December 7, 2007

Subject: Modification Reference Number: 1509.0
Title: TCLP for Metals and Mercury
Sample Matrix: Soil
Fraction Affected: Metals and Mercury
Statement of Work: ILM05.4

Purpose:

The Contractor Laboratory is requested to perform the following modified analyses under the Inorganic Statement of Work (SOW) ILM05.4, based on the additional specifications listed below. Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in SOW ILM05.4 remain unchanged and in full force and effect. The number of samples requested in this modification is not guaranteed.

Please note that accepting a modified analysis request is voluntary, and that the Laboratory is not required to accept the modified analysis. There will be no adverse effect to the Laboratory for not accepting the modified analysis request. However, once the Laboratory accepts the request for modified analysis, it shall perform the analysis in accordance with this modification and as specified in SOW ILM05.4.

The Laboratory is requested to review the modification described herein, determine whether or not it shall accept the requested modified analyses, and complete the attached response form. The Laboratory shall provide comments in response to the required changes in the designated area, in order to ensure that the modified analysis can be completed in accordance with the specifications described herein.

The requirements in the RFQ are as stated and any defects will be assessed by SMO per the laboratory contract. The Laboratory should take this into account when submitting their quote.

Notice to Contractors: Acceptance of Modified Analysis samples will not count against the monthly capacity.

Modification to the SOW Specifications:

The Laboratory shall extract soil samples for Metals and Mercury by Method SW-846 1311 [Toxicity Characteristic Leaching Procedure (TCLP)], as indicated on the Traffic Report/Chain of Custody Record.

The Laboratory shall digest TCLP extracts by preparation methods HW1 or MW1 and analyze for Arsenic, Cadmium, and Lead by ICP-AES.

- The Laboratory shall prepare TCLP extracts by preparation methods CW1 [method CV], or analyze by method AV, and analyze for Mercury by CVAA.
- The Laboratory shall perform Matrix Spike at SOW specified levels.
- The Laboratory shall analyze the TCLP extraction blank as preparation blank (PBW).
- The Laboratory shall report TCLP results as aqueous samples.
- The Laboratory shall provide raw data [laboratory bench sheets, logs, notebook pages] for the TCLP procedure. This includes the initial determination of percent solids, determination of extraction fluid, amount of liquid (if any) separated from solid phase, mass of solid material, volume of extraction fluid used.

Reporting Requirements:

Hardcopy and electronic data reporting are required as specified per SOW ILM05.4. All hardcopy and electronic data shall be adjusted to incorporate modified specifications. This includes attaching a copy of the requirements for modified analysis to the SDG Narrative. If specific problems occur with incorporation of the modified analysis into the hardcopy and/or electronic deliverable, the Laboratory shall contact the DASS Manager within the Sample Management Office (SMO) at (703) 818-4233 or via e-mail at CCSSUPPORT@fedcsc.com for resolution.

All samples and/or fractions assigned to an SDG shall be analyzed under the same Modified Analysis requirements as established in this memorandum. The Laboratory shall not include data from multiple Modified Analyses in one SDG.

The Laboratory shall include the Modification Reference Number 1509.0 on each hardcopy data form under the "NRAS No:" header appearing on each form as well as the "NRAS No." field on the Record type 21 of the electronic deliverable (if diskette deliverable is required). The Laboratory shall also document the Modification Reference Number and Solicitation Number on the SDG Coversheet.

Clarifications/Revisions to the RFQ for Modified Analysis:

Laboratory Name:**Laboratory Comments:**

Contractor Laboratory Acknowledgment Document

Analysis	Modification Reference Number	Hardcopy Turnaround Requirement	(A) Estimated No. of Samples by Matrix (including billable QC)	Cost For Modified Analysis	
				(B) New Per Sample Price	(A X B) Total Cost
ICP-AES 1-4 Metals	1509.0	14 days	5 soil	\$ _____	\$ _____
Mercury	1509.0	14 days	5 soil	\$ _____	\$ _____
				Total Project Cost	\$ _____

Project Information

Estimated Shipping Period: Samples in-house

Additional Information:

Note: The data will be evaluated for timeliness and contract compliance in accordance with the laboratory contract and all applicable amendments. If any of the services do not conform to the requested requirements, the USEPA reserves the right to reduce the value or reject the data in accordance with the laboratory contract.

Name of Contractor Laboratory:

Address of Contractor Laboratory:

Statement of Work: ILM05.4

Contract Number:

Delivery Order No.:

☐ Laboratory AGREES to perform analysis through the modified analysis protocol outlined in Modified Analysis Request.

☐ Laboratory DECLINES to perform analysis through the modified analysis protocol outlined in Modified Analysis Request.

Signature of Laboratory Representative: _____

Date: _____

Signature of USEPA Contracting Officer: _____

Date: _____

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Modification Reference Number: The numerical value assigned to the technical requirements describing the changes to the Statement of Work. This column is completed by SMO.

Estimated No. of Samples and sample Matrix (including QC): The client's estimated number of samples (by matrix), including billable QC samples, to be collected and shipped to the laboratory. This column is completed by SMO.

Total Cost: For line items that require modified analysis, this value is the Estimated No. of Samples (including QC) multiplied by the New Per Sample Price. For line items that do not require modified analysis, this value is the Estimated No. of Samples (including QC) multiplied by the Contract Per Sample Price. This column is completed by the laboratory.

Total Project Cost: Sum of the total costs for all line items.. This column is completed by the laboratory.

SAMPLE LOG-IN SHEET

Lab Name A4 SCIENTIFIC, INC.		Page 1 of 1			
Received By (Print Name) Jessica Schulze		Log-in Date 12-11-07			
Received By (Signature) <i>Jessica Schulze</i>					
Case Number 36948	Sample Delivery Group No. MH2352	NRAS Number 1509.0			
Remarks: 1. Custody Seal(s) Present <u>Absent</u> Intact/Broken 2. Custody Seal Nos. <u>NA</u> <u>I</u> 3. Traffic Reports/Chain of Custody Records or Packing Lists Present <u>Absent</u>* 4. Airbill <u>Airbill</u> Sticker <u>Present</u> Absent* 5. Airbill No. 86398575033 <u>NA</u> 6. Sample Tags Present <u>Absent</u>* Sample Tag Numbers <u>Listed</u> Not Listed on Traffic Report/Chain of Custody Record 7. Sample Condition Intact <u>Broken</u>*/ Leaking 8. Cooler Temperature Indicator Bottle Present <u>Absent</u>* 9. Cooler Temperature <u>5°C</u> 10. Does information on Traffic Reports/Chain of Custody Records and sample tags agree? <u>Yes</u> No* 11. Date Received at Lab <u>12-11-07</u> 12. Time Received <u>8:00</u>	EPA Sample #	Aqueous Sample pH	Corresponding Sample Tag # Assigned Lab # Remarks: Condition of Sample Shipment, etc.		
	MH24M6	NA	8242404 ✓	0008750-01	1-2ip lock bag intact
	J2		8309966 ✓	-02	
	L8		8311925 ✓	-03	
	L0		8311921 ✓	-04	
	MH24B1		8242419 ✓	-05	

Sample Transfer	
Fraction MHS	Fraction 2
Area # Cooler A	Area #
By JS	By JS
On 12-11-07	On 12-11-07

* Contact SMO and attach record of resolution

Reviewed By JS 12/11/07	Logbook No. NA
Date 12/11/07	Logbook Page No. 1

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME	<u>A4 SCIENTIFIC, INC.</u>
CITY/STATE	<u>THE WOODLANDS, TX</u>
CASE NO.	<u>36948</u> SDG NO. <u>MH2352</u>
SDG NOS. TO FOLLOW	<u>NA</u>
NRAS NO.	<u>1509.0</u>
CONTRACT NO.	<u>EPW06057</u>
SOW NO.	<u>ILM05.4</u>

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.6)

	PAGE NOS.		LAB	CHECK REGION
	FROM	TO		
1. Cover Page	<u>1</u>	<u>1</u>	<u>✓</u>	<u>✓</u>
2. SDG Narrative	<u>2</u>	<u>8</u>	<u>✓</u>	<u>✓</u>
3. Sample Log-In Sheet (DC-1)	<u>9</u>	<u>9</u>	<u>✓</u>	<u>✓</u>
4. Inventory Sheet (DC-2))	<u>10</u>	<u>11</u>	<u>✓</u>	<u>✓</u>
5. Traffic Report/Chain of Custody Record(s)	<u>12</u>	<u>16</u>	<u>✓</u>	<u>✓</u>
Inorganic Analysis				
6. Data Sheet (Form I-IN)	<u>17</u>	<u>21</u>	<u>✓</u>	<u>✓</u>
7. Initial & Continuing Calibration Verification (Form IIA-IN)	<u>22</u>	<u>24</u>	<u>✓</u>	<u>✓</u>
8. CRQL Standard (Form IIB-IN)	<u>25</u>	<u>26</u>	<u>✓</u>	<u>✓</u>
9. Blanks (Form III-IN)	<u>27</u>	<u>28</u>	<u>✓</u>	<u>✓</u>
10. ICP-AES Interference Check Sample (Form IVA-IN)	<u>29</u>	<u>29</u>	<u>✓</u>	<u>✓</u>
11. ICP-MS Interference Check Sample (Form IVB-IN)	<u>NA</u>	<u>NA</u>	<u>✓</u>	<u>✓</u>
12. Matrix Spike Sample Recovery (Form VA-IN)	<u>30</u>	<u>30</u>	<u>✓</u>	<u>✓</u>
13. Post-Digestion Spike Sample Recovery (Form VB-IN)	<u>NA</u>	<u>NA</u>	<u>✓</u>	<u>✓</u>
14. Duplicates (Form VI-IN)	<u>31</u>	<u>31</u>	<u>✓</u>	<u>✓</u>
15. Laboratory Control Sample (Form VII-IN)	<u>32</u>	<u>33</u>	<u>✓</u>	<u>✓</u>
16. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	<u>34</u>	<u>34</u>	<u>✓</u>	<u>✓</u>
17. Method Detection Limits (Annually) (Form IX-IN) ²³ 12/20/07	<u>35</u>	<u>37</u>	<u>✓</u>	<u>✓</u>
18. ICP-AES Interelement Correction Factors (Quarterly) (Form XA-IN)	<u>38</u>	<u>38</u>	<u>✓</u>	<u>✓</u>
19. ICP-AES Interelement Correction Factors (Quarterly) (Form XB-IN)	<u>39</u>	<u>39</u>	<u>✓</u>	<u>✓</u>
20. ICP-AES and ICP-MS Linear Ranges (Quarterly) (Form XI-IN)	<u>40</u>	<u>40</u>	<u>✓</u>	<u>✓</u>
21. Preparation Log (Form XII-IN)	<u>41</u>	<u>42</u>	<u>✓</u>	<u>✓</u>
22. Analysis Run Log (Form XIII-IN)	<u>43</u>	<u>44</u>	<u>✓</u>	<u>✓</u>

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	PAGE NOS.		CHECK	REGION
	FROM	TO		
23. ICP-MS Tune (Form XIV-IN)	NA	NA	✓	—
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	↓	↓	✓	—
25. ICP-AES Raw Data	45	153/145	✓	✓
26. GFAA Raw Data (If Applicable)	NA	NA	✓	—
27. ICP-MS Raw Data	↓	↓	✓	—
28. Mercury Raw Data	146	153	✓	✓
29. Cyanide Raw Data	NA	NA	✓	—
30. Preparation Logs Raw Data	154	157-196	✓	✓
31. Percent Solids Determination Log	NA	NA	✓	—
32. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments <u>1</u>)	187	187	✓	✓
Sample Tags	188	192	✓	✓
Sample Log-In Sheet (Lab)	193	193	✓	✓
33. Misc. Shipping/Receiving Records				
(list all individual records)				
Telephone Logs	NA	NA	✓	—
Custody Seals	↓	↓	✓	—
NA	↓	↓	✓	—
34. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)				
Custody Logbook	194	194	✓	✓
NA	NA	NA	✓	—
35. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records <u>Digestion Log</u>	154	157	✓	✓
Analysis Records <u>Run logs</u>	158	163	✓	✓
Description <u>Standard prep logs</u>	164	196	✓	✓
36. Other Records (describe or list)				
Telephone Communications Log	NA	NA	✓	—
Emails <u>Mod. Flexchase</u>	195	198	✓	✓
NA	NA	NA	✓	—

37. Comments:

08 12/20/07

Completed by:

(CLP Lab)

(Signature)

(Print Name & Title)

(Date)

Audited by:

(USEPA)

(Signature)

(Print Name & Title)

(Date)

000000011



USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 36948
DAS No: 36, 2/10/07
SDG No: MH23L6 L

Date Shipped: Carrier Name: FedEx Airbill: Shipped to: A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277	Chain of Custody Record		Sampler Signature: <i>CL</i>	For Lab Use Only Lab Contract No: EPW06057 Unit Price: <i>Ø</i> Transfer To: <i>Z</i> Lab Contract No: <i>Z</i> Unit Price:	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1 Chris Hayes	11/6/07 8AM	Janna Simonsen		11/6/07
	2 Janna Simonsen	11/8/07 11AM			
	3				
4		J. Schulte	11/9/07 9:13		

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH23M0	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG40 (1)	UE09-CNTY-0.5	S: 10/30/2007 10:45	0008702-11	Intact
MH23M1	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG41 (1)	UE10-28A1X-0.5	S: 10/30/2007 13:00		-12
MH23M2	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG42 (1)	UE10-CNTY-0.5	S: 10/30/2007 11:00		-13
MH23M3	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG43 (1)	UE11-28A1X-0.5	S: 10/30/2007 12:35		-14
MH23M4	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG44 (1)	UE12-28A1X-0.5	S: 10/30/2007 10:50		-15
MH23M5	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG45 (1)	UE12-28A1X-1.0	S: 10/30/2007 11:00		-16
MH23M6	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG46 (1)	UE12-CNTY-0.5	S: 10/30/2007 14:00	0008750-01	-17 Intact
MH23M7	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG47 (1)	UE13-CNTY-0.5	S: 10/30/2007 13:25		-18
MH23M8	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG48 (1)	UE15-CNTY-0.5	S: 10/30/2007 15:00		-19
MH23M9	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG49 (1)	UE16-CNTY-0.5	S: 10/30/2007 15:10		-20

Shipping for Case Completed? <input checked="" type="checkbox"/>	Sample(s) to be used for laboratory QC: MH23L6, MH23M5	Additional Sampler Signature(s): <i>11/9/07</i>	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: <i>11/9/07</i>
Analysis Key: TM = TAL Total Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>

TR Number: 8-065602925-110607-0002

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 36948
DAS No: 121008
SDG No: MH23H0ML6

Date Shipped: Carrier Name: FedEx Airtbill: Shipped to: A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277	Chain of Custody Record		Sampler Signature: <i>Ch Hayes</i>	For Lab Use Only Lab Contract No: EPW06057 Unit Price: \emptyset Transfer To: <i>Z</i> Lab Contract No: <i>Z</i> Unit Price:	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1 Chris Hayes	11/6/07 8AM	Janna Simonsen		11/06/07
	2 Janna Simonsen	11/8/07 11AM			
	3				
4		J. Schulz	11/9/07 943		

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH23J0	Surface Soil (0"-12")	M/G	TM (21)	TAG10 (1)	UE07-28A1X-1.0	S: 10/29/2007 14:15	0008708	-011 Intact
MH23J1	April Turney Surface Soil (0"-12")	M/G	TM (21)	TAG11 (1)	UE08-29-0.5	S: 10/29/2007 15:45		-012
MH23J2	April Turney Surface Soil (0"-12")	M/G	TM (21)	TAG12 (1)	UE11-CNTY-0.5	S: 10/30/2007 11:20	0008750-042	-013
MH23J3	April Turney Surface Soil (0"-12")	M/G	TM (21)	TAG13 (1)	UE13-CNTY-1.0	S: 10/30/2007 13:35	12/10/07	-014
MH23J4	April Turney Surface Soil (0"-12")	M/G	TM (21)	TAG14 (1)	UE14-CNTY-0.5	S: 10/30/2007 13:10		-015
MH23J5	April Turney Surface Soil (0"-12")	M/G	TM (21)	TAG15 (Ice Only) (1)	UE01-28A1X-0.5	S: 10/29/2007 9:25		-016
MH23J6	Chris Hayes Surface Soil (0"-12")	M/G	TM (21)	TAG16 (1)	UE01-29-0.5	S: 10/29/2007 11:30		-017
MH23J7	Chris Hayes Surface Soil (0"-12")	M/G	TM (21)	TAG17 (1)	UE01-CNTY-0.5	S: 10/29/2007 12:00		-018
MH23J8	Chris Hayes Surface Soil (0"-12")	M/G	TM (21)	TAG18 (1)	UE01-RR-0.5	S: 10/29/2007 14:45		-019
MH23J9	Chris Hayes Surface Soil (0"-12")	M/G	TM (21)	TAG19 (1)	UE02-28A1X-0.5	S: 10/29/2007 10:00		-020

Shipment for Case Complete? <input checked="" type="checkbox"/>	Sample(s) to be used for laboratory QC: MH23H7, MH23K1	Additional Sampler Signature(s): <i>11/9/07</i>	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: <i>11/9/02</i>
Analysis Key: TM = CLP TAL Total Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>

TR Number: 8-065602925-110607-0001

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 36948
DAS No:
SDG No: *MH23L0M6 11/10/07* **L**

Date Shipped: Carrier Name: FedEx Airbill: Shipped to: A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277	Chain of Custody Record		Sampler Signature: <i>Ch Hayes</i>	For Lab Use Only	
	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No: <i>EPW06057</i>
	1 Chris Hayes	11/6/07 8AM	Janna Simonsen	11/6/07	Unit Price:
	2 Janna Simonsen	11/8/07 11AM			Transfer To:
3				Lab Contract No:	
4				Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH23L0	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG30 (1)	UE01-44-0.5	S: 10/30/2007 9:15	0008750-04	0008702-01. Intact
MH23L1	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG31 (1)	UE01-44B-0.5	S: 10/30/2007 9:40		
MH23L2	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG32 (1)	UE02-44-0.5	S: 10/30/2007 8:45		
MH23L3	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG33 (1)	UE02-RR-0.5	S: 10/30/2007 10:30		
MH23L4	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG34 (1)	UE03-44-0.5	S: 10/30/2007 10:05		
MH23L5	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG35 (1)	UE06-CNTY-0.5	S: 10/30/2007 16:10		
MH23L6	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG36 (1)	UE06-CNTY-1.0	S: 10/30/2007 9:45		
MH23L7	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG37 (1)	UE08-28-0.5	S: 10/30/2007 17:15		
MH23L8	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG38 (1)	UE08-CNTY-0.05	S: 10/30/2007 9:15	0008750-03	
MH23L9	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG39 (1)	UE09-28A1X-0.5	S: 10/30/2007 13:20		

Shipment for Case Completion? N	Sample(s) to be used for laboratory QC: MH23L6, MH23M5	Additional Sampler Signature(s): <i>11/9/07</i>	Cooler Temperature Upon Receipt: <i>5c</i>	Chain of Custody Seal Number: <i>11/9/07</i>
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <i>N</i>	Shipment Iced? <i>Y</i>

TR Number: 8-065602925-110607-0002

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

sdg: MH2306

Case No:	36948
DAS No:	21/10/07 3752
SDG No:	MH2 487 149/07
L	

Date Shipped:	Carrier Name: FedEx
Airbill:	Shipped to: A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record	Sampler Signature: <i>CL Hay</i>
Relinquished By (Date / Time)	Received By (Date / Time)
1 Chris Hayes 11/6/07 8AM	Janna Simonsen 11/6/07
2 Janna Simonsen 11/8/07 11AM	
3	
4	J. Schuler 11/9/07 943

For Lab Use Only
Lab Contract No: EPW06057
Unit Price: 0
Transfer To: 2
Lab Contract No: 2
Unit Price: 11/9/07

000000010

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH24B1	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG161 (1)	UE05-50-0.5	S: 11/2/2007 10:55	0008706-04	Intact
MH24B2	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG162 (1)	UE05-RR-0.5	S: 11/2/2007 12:45	0008750-05	-02
MH24B3	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG163 (1)	UE06-50-0.5	S: 11/2/2007 10:45		-03
MH24B4	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG164 (1)	UE07-50-0.5	S: 11/2/2007 10:30		-04
MH24B5	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG165 (1)	UE07-50-1.0	S: 11/2/2007 10:35		-05
MH24B6	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG166 (1)	UE08-50-0.5	S: 11/2/2007 10:10		-06
MH24B7	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG167 (1)	UE09-50-0.5	S: 11/2/2007 10:10		-07
MH24B8	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG168 (1)	UE10-50-0.5	S: 11/2/2007 10:35		-08
MH24B9	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG169 (1)	UE11-50-0.5	S: 11/2/2007 10:45		-09
MH24C0	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG170 (1)	UE12-50-0.5	S: 11/2/2007 11:00		-010

Shipment for Case Complete? <input checked="" type="checkbox"/>	Sample(s) to be used for laboratory QC: MH24A3, MH24B3	Additional Sampler Signature(s): <i>23</i> 11/9/07	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 21/9/07
Analysis Key: TMS CLP TAL Total Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>

TR Number: 8-065602925-110707-0005

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**SAMPLE DELIVERY GROUP (SDG)
COVER SHEET**

SDG Number: MH23J2

☒ ICP-AES Analysis

☐ ICP-MS Analysis

Laboratory Name: A4 SCIENTIFIC, INC.

Laboratory Code: A4

Contract No.: EPW06057

Case No.: 36948

Analysis Price: _____

SDG Turnaround: 14 days

Modified Analysis (if applicable):

Modification Reference No.: 1509.0

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) MH23J2	7)	13)	19)
2) MH23L0	8)	14)	20)
3) MH23L8	9)	15)	21)
4) MH23M6	10)	16)	22)
5) MH24B1	11)	17)	23)
6)	12)	18)	24)

MH23J2

First Sample in SDG

MH24B1

Last Sample in SDG

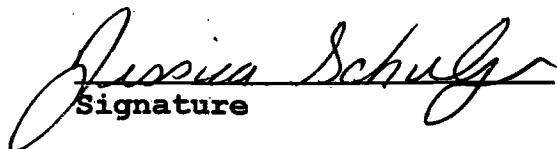
12/11/2007

First Sample Receipt Date

12/11/2007

Last Sample Receipt Date

Note: There are a maximum of 20 **field** samples [excluding Performance Evaluation (PE) Samples] in an SDG. Attach the TR/COC Records to this form in alphanumeric order (the order listed above on this form).


Signature

12-11-07
Date

000000012
Inorganic (10/06)